

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	
				Filing Date	
				First Named Inventor	Wenzel et al.
				Group Art Unit	
Examiner Name					
Sheet	1	of	2	Attorney Docket No.	02-IMP-076

U.S. PATENT DOCUMENTS						
Exam. Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
9.2.	AA	4,383,177		Keller et al.	05/10/1983	Entire Document
9.2.	AB	4,447,732		Leung et al.	05/08/1984	Entire Document
9.2.	AC	4,686,365		Meek et al.	08/11/1987	Entire Document
9.2.	AD	4,780,642		Jacquot	10/25/1988	Entire Document
9.2.	AE	5,206,516		Keller et al.	04/27/1993	Entire Document
9.2.	AF	5,350,926		White et al.	09/27/1994	Entire Document
9.2.	AG	5,433,788		Mochizuki et al.	07/18/1995	Entire Document
9.2.	AH	5,497,006		Sferlazzo et al.	03/05/1996	Entire Document
9.2.	AI	5,523,652		Sferlazzo et al.	06/04/1996	Entire Document
9.2.	AJ	5,554,857		Benveniste	09/10/1996	Entire Document
9.2.	AK	5,576,538		Sakal et al.	11/19/1996	Entire Document
9.2.	AL	5,661,308		Benveniste et al.	08/26/1997	Entire Document
9.2.	AM	5,703,372		Horsky et al.	12/30/1997	Entire Document
9.2.	AN	5,703,375		Chen et al.	12/30/1997	Entire Document
9.2.	AO	5,707,452		Dandi	01/13/1998	Entire Document
9.2.	AP	5,750,987		Ichimura et al.	05/12/1998	Entire Document
9.2.	AQ	5,760,405		King et al.	06/02/1998	Entire Document
9.2.	AR	5,811,823		Blake et al.	09/22/1998	Entire Document
9.2.	AS	5,825,038		Blake et al.	10/20/1998	Entire Document
9.2.	AT	5,834,786		White et al.	11/10/1998	Entire Document
9.2.	AU	5,925,886		Seki et al.	07/20/1999	Entire Document
9.2.	AV	5,975,014		Dandi	11/02/1999	Entire Document
9.2.	AW	6,016,036		Brailove	01/18/2000	Entire Document
9.2.	AX	6,060,718		Brailove et al.	05/09/2000	Entire Document
9.2.	AY	6,100,536		Ito et al.	08/08/2000	Entire Document
9.2.	AZ	6,130,436		Renau et al.	10/10/2000	Entire Document
9.2.	AAA	6,135,128		Graf et al.	10/24/2000	Entire Document
9.2.	AAB	6,207,963	B1	Benveniste	03/27/2001	Entire Document
9.2.	AAC	6,207,964	B1	McIntyre et al.	03/27/2001	Entire Document
9.2.	AAD	6,242,750	B1	Takahashi et al.	06/05/2001	Entire Document
9.2.	AAE	6,294,862	B1	Brailove et al.	09/25/2001	Entire Document
9.2.	AAF	6,271,529	B1	Farley et al.	08/07/2001	Entire Document
9.2.	AAG	6,297,594	B1	Sakal et al.	10/02/2001	Entire Document
9.2.	AAH	6,313,475	B1	Renau et al.	11/06/2001	Entire Document
9.2.	AAI	2002/0014587	A1	Benveniste et al.	02/07/2002	Entire Document
9.2.	AJ	6,359,286	B1	Ito et al.	03/19/2002	Entire Document
9.2.	AAK	6,414,329	B1	Benveniste et al.	07/02/2002	Entire Document
9.2.	AAL	6,515,408	B1	England et al.	02/04/2003	Entire Document
9.2.	AAM	6,541,781	B1	Benveniste et al.	04/01/2003	Entire Document

Examiner Signature	9.2.	Date Considered	5/30/04
--------------------	------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	
				Filing Date	
				First Named Inventor	Wenzel et al.
				Group Art Unit	
Examiner Name					
Sheet	2	of	2	Attorney Docket No.	02-IMP-076

FOREIGN PATENT DOCUMENTS								
Exam. Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
QZ	BA	JP	7-340297		Hitachi, K.K.	12/27/1995	Entire Document	Yes
QZ	BB	JP	406036735A		Tasyi tanasguta et al.	02/10/1994	Entire Document	Yes

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS								
Exam. Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						T ²
QZ	CA	"Work Functions of the Elements [eV]", AFTER L. LEY and M. CARDONA, Photoemission in Solids, Springer 1979, 1 pg.,						
QZ	CB	"Acceleration and Transport of Neutralized Ion Beams", Charged Particle Beams, A Wiley-Interscience Publication, STANLEY HUMPHRIES, JR., 1990, 7 pgs.						
QZ	CC	"Space-Charge Neutralization and Studies of the Beam Plasma", BERNARD PETERS, A. C. HELMHOLZ and W. E. PARKINS, Definition and Description of the Beam-Plasma Region, Book Title Unknown, Date Unknown, 14 pgs.						
QZ	CD	"A Noncontacting Scanning Photoelectron Emission Technique for Bonding Surface Cleanliness Inspection", DR. RAYMOND L. GAUSE, presented to the Fifth Annual NASA NDE Workshop, Cocoa Beach, Florida, Date unknown, 16 pages.						
QZ	CE	"Lowering the Work Function of a Photoemissive Electrode", DIETER W. BLUM, The QTI Group, Applied Electrodynamics, September, 2000, 7 pgs.						
Q	CF							
	CG							
	CH							
	CI							
	CJ							

Examiner Signature	QZ	Date Considered	5/30/04
--------------------	----	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231